

IN THE CLAIMS:

Amend claims 1-10 and add new claims 11-14 as shown in the following listing of claims, which replaces all previous listings and versions of claims.

1. (withdrawn, currently amended) A vacuum pump which generates vacuum by sucking and discharging a gas, ~~with rotation of a rotor, characterized by~~ comprising:

a rotor;

an electrical equipment section for rotating the rotor;

a stator column containing the electrical equipment section;

a base formed integrally with the stator column; and

~~a cooling water pipe buried in the wall of the stator column, column~~ and provided with a branched water inlet port and a branched water outlet port.

2. (withdrawn, currently amended) ~~The A~~ vacuum pump according to claim 1; ~~wherein 1, characterized in that~~ each of the water inlet port and the water outlet port ~~are is~~ branched into two branches and disposed in the base, one branch of the water inlet port and one branch of the water outlet port being communicated with the outside of the vacuum pump at the side surface of the base, and the ~~others other branch of the water inlet port and the other branch of the water outlet port being communicated with the outside of the vacuum pump at the bottom~~ surface of the base.

3. (withdrawn, currently amended) A vacuum pump which generates vacuum by sucking and discharging a gas, with rotation of a rotor, characterized by comprising:

a rotor;

an electrical equipment section for rotating the rotor;

a stator column containing the electrical equipment section;

a base formed integrally with the stator column;

a cooling water pipe buried in the wall of the stator column; and

a plurality of joints which are fixed to each ends of the cooling water pipe and buried in the vacuum pump flush with the external surface of the pump.

4. (withdrawn, currently amended) The A vacuum pump according to claim 3; wherein 3, characterized in that the joint joints and the cooling water pipe are formed of the same metal.

5. (currently amended) A vacuum pump which generates vacuum by sucking and discharging a gas, characterized by comprising:

a pump case for the vacuum pump;

a thread pump stator for supporting that supports the pump case;

a base for supporting that supports for supporting the thread pump stator;

as a stator column formed integrally with the base;

a rotor arranged so as to cover the stator column;

rotating blades provided in multiple stages at the outer periphery of the rotor; and

a cooling water pipe buried in the wall of the stator column.

6. (currently amended) ~~The A~~ vacuum pump according to claim 5; ~~wherein 5, characterized in that~~

the pump case has a fastening portion which is fastened to the thread pump stator to support the pump case, and the thread pump stator has a flange which extends from the thread pump stator and fastens the pump case to support the pump case.

7. (currently amended) ~~The A~~ vacuum pump according to claim 5; ~~wherein 5, characterized in that~~ ~~An~~ ~~an~~ external casing of the vacuum pump is formed by the pump case, the thread pump stator, and the base.

8. (currently amended) ~~The A~~ vacuum pump according to claim 5; ~~wherein 5, characterized in that~~ in the vacuum pump, the inner peripheral surface shape of the rotor and the outer peripheral surface shape of the stator column are different from each other.

9. (currently amended) ~~The A~~ vacuum pump according to claim 5; ~~5, characterized in that the vacuum pump further comprises further comprising~~ a second cooling water pipe arranged on the outer surface of the thread pump stator.

10. (currently amended) ~~The A~~ vacuum pump according to claim 5; ~~5, characterized in that the vacuum pump further comprises further comprising~~ a heater arranged on the outer surface of the thread pump stator.

11. (new) A vacuum pump according to claim 5; wherein the cooling water pipe has a branched water inlet port and a branched water outlet port.

12. (new) A vacuum pump according to claim 11; wherein each of the water inlet port and the water outlet port is branched into two branches and disposed in the base, one branch of the water inlet port and one branch of the water outlet port being communicated with the outside of the vacuum pump at the side surface of the base, and the other branch of the water inlet port and the other branch of the water outlet port being communicated with the outside of the vacuum pump at the bottom surface of the base.

13. (new) A vacuum pump according to claim 5; further comprising a plurality of joints which are fixed to each ends of the cooling water pipe and buried in the vacuum pump flush with the external surface of the pump.

14. (new) A vacuum pump according to claim 13; wherein the joints and the cooling water pipe are formed of the same metal.

ELECTION OF INVENTION:

Applicants provisionally elect, with traverse, the invention designated by the Examiner as Group III drawn to a vacuum pump having a thread pump section and list claims 5-14 as being readable on the elected invention.